AMERICAN UNIVERSITY of Beirut OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN : DIRECTOR

HALIM HOURANI : OBSERVER

BEIRUT, LEBANON

Latitude : 33° 54' 22" N.

Longitude : 2^h 21^m 52^s . 7 E.

November - 1961

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WEATHER BUREAU

NOVEMBER 1961

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. †...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	62.6	61.8	62.4	62.3	24.6	19.2	21.3	23.4	22.0	22.2
2	62.8	61.1	61.2	61.7	25.2	19.7	21.0	23.0	22.0	22.0
3	61.0	60.4	60.5	60.6	24.8	16.2	21.4	23.0	22.0	22.1
4	61.8	60.4	61.9	61.4	24.0	17.9	18.4	22.5	19.5	20.1
5	62.5	61.2	61.4	61.7	23.5	18.5	20.6	22.2	21.0	21.3
6	61.3	60.1	60.5	60.6	24.4	20.6	20.6	23.4	22.4	22.1
7	61.6	60.5	61.2	61.1	26.4	19.7	22.1	24.6	23.0	23.2
8	62.9	61.5	62.0	62.1	25.4	19.4	21.1	23.4	21.5	22.0
9	61.5	60.0	60.4	60.6	22.9	16.6	21.1	22.2	21.0	21.4
10	60.4	59.5	60.3	60.1	21.3	15.6	16.6	15.6	16.9	16.4
11	62.1	61.8	62.7	62.2	23.5	17.0	18.6	21.5	19.0	19.7
12	65.9	65.5	65.7	65.7	22.6	17.3	19.5	21.0	19.5	20.0
13	66.6	65.2	65.8	65.9	22.7	18.6	19.0	21.2	19.5	19.9
14	65.1	63.6	64.1	64.3	22.5	18.9	21.0	21.4	20.6	21.0
15	64.4	63.2	63.6	63.7	24.5	18.6	20.5	22.4	20.0	21.0
16	64.1	62.4	62.8	63.1	24.5	18.1	19.8	22.0	19.8	20.5
17	62.4	60.8	61.0	61.4	24.0	19.4	19.7	22.4	20.0	20.7
18	60.1	58.7	59.9	59.6	25.1	20.6	21.8	23.5	22.0	22.4
19	60.7	60.5	61.8	61.0	22.2	16.5	21.8	19.7	18.7	20.1
20	62.0	59.9	59.1	60.3	21.1	17.0	18.0	17.4	18.8	18.1
21	57.4	57.0	57.3	57.2	19.5	11.5	19.1	18.0	15.6	17.6
22	61.2	62.3	63.3	62.3	16.0	8.6	13.1	12.9	8.7	11.6
23	64.2	65.7	68.3	66.1	14.6	8.1	11.1	9.7	10.5	10.4
24	72.4	71.4	71.7	71.8	16.3	10.7	11.3	14.2	12.2	12.6
25	71.5	69.1	67.7	69.4	17.7	12.6	13.0	16.1	14.1	14.4
26	65.9	64.5	64.4	64.9	19.2	13.6	15.0	16.7	14.9	15.5
27	65.1	64.6	65.4	65.0	19.5	14.0	15.7	17.8	15.6	16.4
28	67.4	67.0	68.4	67.6	20.8	15.0	16.4	18.8	15.9	17.0
29	70.7	70.3	71.2	70.5	20.7	15.6	16.7	19.0	16.5	17.4
30	70.7	69.3	69.2	69.7	21.2	15.5	16.8	19.2	16.9	17.6
31										
	63.94	62.98	63.51	63.46	22.02	16.35	18.40	19.94	18.34	18.89

Barometer, range 772.4 mm — 757.0 mm
» 71-yrs. average 762.63 mm.
Thermometer, range 26.4 °C — 8.1 °C
« 82-yrs. average 19.5 °C
Rain. total for month 76.75 mm
« 82-yrs. average for month 133.4 mm
« total from Sept. 1st. 89.73 mm
« 82-yrs. average from Sept. 1st. 187.27mm

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METEOROLOGICAL REGISTER

Date	Pressure of Water Vapour Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8.30	14:30	20:30	Mean	Hrs.	Kms.	m m
1	17.0	16.4	19.7	17.7	67	56	74	66	8.8	143	
2	17.0	18.7	19.7	18.5	69	67	74	70	9.4	84	
3	17.5	19.6	18.5	18.5	69	70	70	70	4.5	69	03.0
4	17.0	17.6	16.4	17.0	80	64	72	72	6.5	143	4.50
5	16.9	17.2	17.4	17.2	71	64	70	68	9.0	116	
6	17.7	17.2	13.1	16.0	73	60	48	60	8.1	63	
7	17.1	19.2	21.1	19.1	64	63	75	67	9.3	171	
8	15.1	19.8	21.2	18.7	60	69	82	70	9.0	71	
9	17.5	19.0	17.2	17.9	70	71	70	70	2.7	108	
10	15.3	15.7	14.5	15.2	82	89	75	82	0.0	80	8.50
11	13.0	15.6	16.4	15.0	61	61	72	65	9.1	92	
12	15.4	16.2	16.4	16.0	68	65	72	68	8.9	77	
13	16.5	18.1	18.6	17.7	76	72	82	77	8.9	48	
14	18.3	20.6	21.1	20.0	73	80	87	80	8.7	227	
15	20.6	22.5	20.3	21.1	85	82	87	85	8.2	55	
16	16.0	21.9	20.8	19.6	69	82	91	81	8.6	8	
17	9.4	18.8	17.4	15.2	42	70	75	62	8.7	29	
18	18.4	14.2	12.6	15.1	71	49	48	56	7.0	89	
19	18.0	16.2	16.1	16.8	70	71	76	72	0.2	232	5.43
20	16.5	18.6	18.5	17.9	80	94	86	87	1.4	238	24.25
21	17.0	10.6	10.1	12.6	77	51	57	62	0.0	460	23.85
22	6.4	5.3	9.6	7.1	43	38	83	55	5.7	620	2.35
23	8.5	9.5	7.2	8.4	64	80	57	67	2.5	169	8.02
24	5.2	4.9	5.4	5.2	39	30	41	37	8.7	119	
25	7.6	7.6	9.9	8.4	51	40	61	51	6.6	113	
26	8.3	9.3	8.8	8.8	49	49	53	50	8.2	79	
27	10.8	11.8	10.9	11.2	61	58	62	60	8.5	124	
28	11.1	13.9	13.4	12.8	59	65	74	66	7.8	109	
29	11.4	14.6	13.3	13.1	60	67	70	66	7.1	97	
30	12.6	14.0	15.4	14.0	66	63	82	70	8.4	69	
31											
	14.30	15.49	15.37	15.06	65.6	64.7	70.9	67.1	6.68	136.73	2.56

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric date from reading of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M. O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20.30 for the preceding 24 hours.
71 year averages are for period, 1875 - 1943

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METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast – 10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	3st	0	1.0	1e	3ne	2ne	light	H; p.m.
2	0	0	0	0.0	1sw	2ne	2ne	,,	H; a.m.
3	9st-cu	9st-ci	1cu-ci	6.3	1nw	1ne	0	,,	
4	10st	2st-cu	0	4.0	5nw	3n	2ne	,,	
5	4cu-st	0	0	1.3	1sw	2ne	3ne	,,	
6	10ci	10ci-st	0	6.7	0	4ne	3ne	light	
7	0	0	0	0.0	1ne	1ne	5ne	,,	
8	0	4ci	0	1.3	1se	2ne	4ne	,,	D; p.m.
9	10st	10ci	2cu-st	7.3	3ne	3ne	2ne	,,	
10	10ni	10st-ni	0	6.7	1s	3s	1s	,,	
11	0	2st-cu	0	0.7	2sw	2sw	2sw	light	
12	0	2ci	0	0.7	2e	1ne	2ne	,,	
13	0	0	7cu	2.3	2ne	3ne	2ne	,,	D; a.m. p.m.
14	0	0	2st	0.7	4ne	4ne	0	,,	D; a.m. p.m.
15	0	0	0	0.0	3sw	2ne	0	,,	D; a.m. p.m.
16	0	4ci	0	1.3	2s	1n	0	light	D; a.m. p.m. H; p.m.
17	1st	8ci	5ci-cu	4.7	2sw	3ne	0	,,	D; p.m.
18	10ci	5ci-st	7ci	7.3	1s	1ne	4sw	,,	Lunar Halo
19	10st-cu	10st-cu	9cu-st	9.7	5sw	1s	2sw	,,	
20	10st-cu	10cu-ni	10ni	10.0	1s	2sw	4sw	,,	
21	10st-ni	10st	10ni-st	10.0	5sw	6sw	6sw	slight	
22	7cu-ni	5cu-ni	10ni-st	7.3	6nw	6nw	2nw	,,	
23	10cu-ci	10st	1st	7.0	3sw	2s	2s	light	
24	0	0	0	0.0	2s	3ne	2ne	,,	
25	1ci	10ci	8ci	6.3	2s	1ne	1s	,,	
26	2ci-st	3ci	3ci	2.7	1s	1n	2s	light	
27	0	0	0	0.0	2e	3ne	3s	,,	
28	1cu-st	2cu-st	0	1.0	2s	3w	2s	,,	
29	4ci	10ci	0	4.7	1e	1ne	2e	,,	
30	0	0	0	0.0	1e	3ne	1e	,,	D; p.m
31									

Abbreviation : G = gale ; H = haze ; M = mist ; T = Thunderstorm ; D = dew
W = strong wind ; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	0	4	5	1	8	8	0	3	1	30
14:30	3	19	0	0	3	3	1	1	0	30
20:30	0	11	2	0	6	5	0	1	5	30
Total	3	34	7	1	17	16	1	5	6	90

Number of days with rain 8, fog 0, Thunderstorms 0, gale 0

71-yrs. average number of days with rain during month 9.4